

Id (Autogenerated) CR #	Requirement Name	Description	Priority	Input(s)	Source(s)	Output(s)	Destination(s)	Precondition(s)	Postcondition(s)	Win-Win Agreement(s)	Is Evolutionary?
CR - 1	Multi-School Support	In the future, there may be more than one LEMA school, so school codes must be added to each student's data to break data down according to school.	M (Must have)	Student grades, attendance	Teacher input	Aggregated data is displayed only for the current school	GUI	Teacher has entered student grades consistently. Users of any role are viewing a report.	Based on a school code, data is aggregated and displayed only in relation to that school.	WC_730	Yes
CR - 2	Scatterplot Reporting	The system must show scatterplots that show students where they stand for attendance and grades.	M (Must have)	Student attendance, grades	Teacher input	One scatterplot showing student grade placement and another showing tardies and absences	GUI	Users of any role access a grade report page or attendance report page. Teacher has consistently entered student grades/attendance information.	Scatterplot showing data for all students in the class so that the student can see where he/she stands in relation to everyone else.	WC_753	No
CR - 3	Reservation System	System must keep track of all materials, such as books, that have been borrowed by students.	M (Must have)	Materials borrowed, name of student, date of the first day borrowed, expected return date	Teacher input	All input data in tabular form, with red dates indicating an overdue material.	GUI, Database	Teache must have entered all items specified in the input column. User must be in the teacher role or full-access role and must be viewing the Reservation system page.	Newly entered data is displayed in the table.	WC_111	No
CR - 4	Statistical Data	System must have aggregate student data calculations such as average and standard deviation for grades.	M (Must have)	Student grades	Teacher input	A summary table indicating said calculations.	GUI	Teacher must have entered student grades consistently. User must be viewing a page that shows a grade report.	Summary table is populated with aggregate student data.	WC_97	No
CR - 5	Pie Chart for Grade Magnitude	System must have a chart that shows how much of a student's grade is made up of each category of work (projects, test, hw, etc.)	M (Must have)	Category weights	Teacher input	A pie chart that summarizes category weights.	GUI, Database	Teacher must have entered class category weights. User must have a teacher or full-access role and must be viewing an attendance report page.	Pie chart displays a number of pieces equal to the number of categories and each piece is as large relative to the others as the numbers are in the database.	WC_91	No
CR - 6	Daily Reporting	System must have the ability to update student grade/attendance reports daily.	M (Must have)	Student grades, attendance.	Teacher input	A series of reports (defined in other requirements) that summarize student behavior.	GUI, Database	Teacher must have consistently entered student data. User can be in any role, but must be viewing either an attendance or grade report.	Charts and tables display student data as entered in the database by the teachers.	WC_89	No
CR - 7	Student Progress Over Time	System must show data for student GPA, number of credits completed, and attendance rate for the current term and for previous months	M (Must have)	Student grades, attendance.	Teacher input	A performance meter report that displays bars (or some other intuitive symbol) indicating how well a student is performing in each metric.	GUI, Database	Teacher has entered in student information consistently for the term, and the user must be viewing the performance report in any role.	Performance meter bar fills up according to the metric it is reporting on (for example, a performance meter bar for credits would show half-full for the average student who has just finished his/her second year of classes)	WC_85	No
CR - 8	Data Format	Number of missing assignments, tardies, and absences must be a whole number, not a percentage.	M (Must have)	Student attendance	Teacher input	Chart axes and table data are displayed as intuitive numbers.	GUI	Teacher has entered student data consistently. User of any role in viewing an attendance or grade report.	All numbers represent meaningful counts of metrics provided rather than percentages (whenever percentages would be poorly understood by the student)	WC_83	No
CR - 9	Track Parent Notifications	The system should keep track of all communication between teachers and teachers/parents that goes through this system.	S (Should have)	Teacher communication requests.	Teacher input	A report indicating when teachers contacted parents as well as the subject of the conversation.	GUI	Teacher has sent messages to parent(s) through this system's communication page.	A Report is generated that displays teacher correspondence with parents.	WC_61	No
CR - 10	Parent Communication Page	The system should support sending email and text messages between teachers and teachers/parents.	S (Should have)	Teacher communication requests.	Teacher input	An email (or possibly a text message) to the designee with the specified message.	GUI, Database	Teacher has requested that a message be sent and that person's contact information resides in the database.	An email is sent to the designee with the text specified on the website.	WC_57	No
CR - 11	Levels of Access	The system must offer 5 levels of access: student, parent, 2 levels of teachers, and admin.	M (Must have)	Login credentials	Teacher, parent, or student input.	Limited access to the site for all but the highest role.	GUI	User has logged into the system.	The user is shown different portions of the site depending on their access level (all teachers can see student data, but they can also see the reservation page).	WC_101	No

CR - 12	Export from Easy Grade PRO	The system must accept a text file, parse the information it contains, and store that information in a database.	M (Must have)	Text file exported from Easy Grade Pro.	Teacher.	The information is uploaded to the database.	Database	Teacher has exported student data to a text file from the Easy Grade Pro application.	The student data is stored in the database.	WC_1051	No
CR - 13	Aggregate Attendance Data	The system must show attendance metrics (number of tardies and absences) by student, by class, by grade, and school-wide.	W (Want to have)	Student data from teachers (exported as a text file from Easy Grade Pro)	Teacher	Report table showing attendance information.	GUI	Teacher has input student attendance data into Easy Grade Pro, exported it to a text file, and uploaded it into the system.	Student attendance data appears in the report tables.	WC_1104	No
CR - 14	Missing Assignments	The system must store missing assignments for each student separated by class	M (Must have)	Student data from teachers (exported as a text file from Easy Grade Pro)	Teacher	Report showing missing assignments	GUI, Database	Teacher has input assignment data into Easy Grade Pro, exported it to a text file, and uploaded it into the system.	Missing assignments are stored in the database and appear in the grade reports.	WC_1107	No
CR - 15	Behavior Referrals	The system could provide a web page for teachers to write/send referrals.	C (Could have)	Behavior referral information entered into web page fields	Teacher	A behavior referral document is generated	GUI	Teacher has filled out the input fields of the behavior referrals page	A document is generated with the referral information.	WC_1108	No
CR - 16	Achievement Awards	The system could provide a web page for teachers to write/send achievement awards to students	C (Could have)	Achievement award information entered into web page fields	Teacher	An award document is generated	GUI	Teacher has filled out the input fields of the achievement awards page	A document is generated with the award information.	WC_1109	No
CR - 17	Threaded Discussions	The system could provide a conversation mechanism for teachers to talk about each student (forum style). The system would store these conversations for each student	W (Want to have)	Conversation text on the conversation page for a particular student.	Teacher	The post appears on the student's conversation tab.	GUI, Database	Teacher has posted text in the conversation tab for a student and submitted it.	This post appears on that student's page.	WC_1110	No
CR - 18	Calculate Attendance Metrics	The system could use attendance information to calculate the number of missed days, instructional minutes missed, and dollar amount wasted as a result.	C (Could have)	Student attendance data, cost of a class, and length of a class in minutes.	Teacher	Report table with the specified metrics.	GUI	Teacher inputs student attendance on a regular basis. The database is preloaded with a class' length in minutes and tuition cost.	A report appears that summarizes this attendance data on the attendance report page.	WC_1111	No
CR - 19	Failing Students	The system should report on students who are receiving multiple D's or F's	S (Should have)	Student grade data	Teacher	Report table with student name and number of classes he is failing this term	GUI	Teacher inputs student grades on a regular basis.	A report appears on the grade reports page that shows each student's name followed by the number of classes each student is failing this term.	WC_1112	No
CR - 20	Performance Meter: Countdown	The system should be able to recognize when a student will no longer graduate on time.	C (Could have)	Student grade data, student credits completed data	Teacher	An indicator saying whether the student is able to graduate on time	GUI	Teacher inputs student grade data.	An indicator appears displaying a note if the student cannot complete his requirements on time	WC_1114	No
CR - 21	Performance Meter: A - G	The system should track credits, number of failures, and estimated time of completion for both UC and CSU systems	C (Could have)	Student grade data, credits completed data.	Teacher	Indicator saying whether the student is eligible for a UC or CSU college.	GUI	Teacher inputs student grade data.	An indicator appears displaying a note about the eligibility of the student for a UC or CSU.	WC_1115	No
CR - 22	Performance Meter: Core Classes	The system should track the number of math, science, and english classes left per student.	C (Could have)	Student grade data, credits completed data	Teacher	A report table showing the number of each class needed.	GUI	Teacher inputs student grade data.	A report table appears showing the number of math, science, and english classes remaining to graduate.	WC_1116	No
CR - 23	Performance Meter: Aggregate	The performance meter reports should run for each grade and school-wide	C (Could have)	Student grade data, student attendance data, credits completed data	Teacher	Performance reports show data for individual students and aggregates	GUI	Teacher inputs student grade data and student attendance data.	Each performance report displays aggregates for each grade and school-wide in addition to individual student data.	WC_1117	No
CR - 24	Missing Assignments to Grade Lost	The system should calculate the percentage of the total grade lost due to missing assignments	C (Could have)	Student grade data	Teacher	Report table that shows the percentage lost.	GUI	Teacher inputs student grade data.	Report table displays the percentage of the total grade lost due to missing assignments.	WC_1119	No
CR - 25	Show Metrics Every 5 Weeks	The system should keep track of student letter grades for each 5 week term of a semester (after 5 weeks, 10 weeks, 15 weeks, and final)	S (Should have)	Student grade data	Teacher	Report table shows the grades for each 5 week term of the semester	GUI	Teacher inputs student grade data consistently.	Report table displays the final letter grade for each class for every 5 week term of a semester.	WC_1120	No

